

REMARKS

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

The specification has been amended to correct minor grammatical and typographical errors. No new matter has been added.

Also, a new Abstract is being submitted, based on the objection to the Abstract as made in the Office Action.

Claims 2, 3, 7, 8, 14-16, 18, 19, 27, 28, 31 and 32 are currently being cancelled.

Claims 1, 4-6, 9, 10, 12, 17, 20-26, 29, 30, 33 and 34 are currently being amended.

Claims 35-38 are currently being added.

This amendment adds, cancels and amends claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending the claims as set forth above, claims 1, 4-6, 9-13, 17, 20-26, 29, 30 and 33-38 are now pending in this application.

In the Office Action, claims 1-3, 5-7, 9-14, 16-19, 21, 23, 24, 26-28, 30, 32 and 33 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,042,614 to Davidson; and claims 4, 8, 15, 20, 22, 25, 29, 31 and 34 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Davidson in view of SPARCworks "Sun Product Documentation". These rejections, to the extent that they may be applied to the presently pending claims under rejection, are traversed for at least the reasons given below.

Independent claim 1 has been amended to include the features of now-cancelled claims 2 and 3, as well as to include other features that have been added by way of this amendment and reply. Independent claim 17 has been amended to include the features of now-cancelled claims 18 and 19, as well as

to include other features that have been added by way of this amendment and reply. Independent claim 26 has been amended to include the feature of now-canceled claims 27 and 28, as well as to include other features that have been added by way of this amendment and reply.

In particular, the claimed distributed debugger system includes an executor having an execution-status manager that changes its setting content when being instructed to change the execution status, in which a communication means notifies the execution-status manager in either of the controllers or the execution-status manager of the changed content upon occurrence of a temporary halt status due to detecting of a breakpoint, and in which the execution-status manager changes its status in response to the notification and instructs the process manager to instruct a change of operation, and in which the same execution status is maintained on all computers on which the distributed debugger system operates.

While Davidson is directed to a distributed debugger system, Davidson does not disclose, teach or suggest the above-recited features of claim 1. Also, please note that no distinction between inherent settings and common settings is disclosed or suggested in Davidson. Accordingly, since SPARCworks "Sun Product Documentation" does not rectify the above-mentioned deficiencies of Davidson, claim 1 is patentable over the cited art of record.

Presently pending independent claims 18 and 26 have been amended in a manner similar (but a bit different) to the amendments made to claim 1, whereby those claims are also believed to patentably distinguish over the cited art of record.

Therefore, all of the presently pending claims are believed to be in condition for allowance.

New claims 35-38 have been added to recite additional features of the present invention that are believed to patentably distinguish over the cited art of record. For example, new claims 37 and 38 recite that the setting-status manager of said executor only notifies all other computers in which said distributed debugger operates of the change in setting only when the change in

setting originated at a same computer on which said executor operates. Neither Davidson nor the SPARCworks document teaches or suggests this feature.

Accordingly, Applicant believes that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. § 1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

April 21, 2004

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ABSTRACT

A For a distributed and transparent debugging environment, is provided where, in order to debug a distributed system bridging over plural computers, setting or execution statuses which are respectively managed by debuggers operating on the computers are shared among the debuggers. The a controller 101 and the an executor 102, each which accepts operations from a user, are disposed on each of plural computers. Each of the The controller 101 and the executor 102 each has a setting-status manager 104 for managing the setting of a debugger and an execution-status manager 105 for managing the execution status of a debugger. In response to a status change, each of the controller 101 and the executor 102 each notifies other computers of the content of the change via the network 130, thus sharing the status. The A process manager 110 manages a debug object program according to the content of setting and sets a an operation status change due to detection of a break point to the an execution-status manager 105. Meanwhile, the process manager 110 changes its operation in response to a change in execution status sent from another computer.